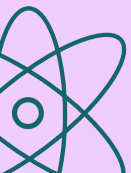


**The goal of this project is to build a Sales Analytics System that retrieves, analyzes, and reports sales data for a retail store. I uses SQL to efficiently query data from a relational database, offering key insights**





Q.1 Write a SQL Query to retrieve all columns for sales made on '2022-11-05'.

```
select * from retail_sales
where
sale_date = '2022-11-05';
```

Showing rows: 1 to 11 Page No: 1 of 1											
	transactions_id [PK] integer	sale_date date	sale_time time without time zone	customer_id integer	gender character varying (10)	age integer	category character varying (15)	quantity integer	price_per_unit double precision	cogs double precision	total_sale double precision
1	180	2022-11-05	10:47:00	117	Male	41	Clothing	3	300	129	900
2	240	2022-11-05	11:49:00	95	Female	23	Beauty	1	300	123	300
3	1256	2022-11-05	09:58:00	29	Male	23	Clothing	2	500	190	1000
4	1587	2022-11-05	20:06:00	140	Female	40	Beauty	4	300	105	1200
5	1819	2022-11-05	20:44:00	83	Female	35	Beauty	2	50	13.5	100
6	943	2022-11-05	19:29:00	90	Female	57	Clothing	4	300	318	1200
7	1896	2022-11-05	20:19:00	87	Female	30	Electronics	2	25	30.75	50
8	1137	2022-11-05	22:34:00	104	Male	46	Beauty	2	500	145	1000
9	856	2022-11-05	17:43:00	102	Male	54	Electronics	4	30	9.3	120
10	214	2022-11-05	16:31:00	53	Male	20	Beauty	2	30	8.1	60
11	1265	2022-11-05	14:35:00	86	Male	55	Clothing	3	300	111	900





Q.2 Write a SQL Query to retrieve all transactions where the category is 'clothing' and the quantity is more than equal to 3 in the month of 'Nov-2021'.

```
select * from retail_sales
where
    category = 'clothing'
    and
    to_char(sale_date, 'YYYY-MM') = '2021-11'
    and
    quantity >= 3;
```





Q.3 Write a SQL Query to calculate the total sales for each category.

```
select category, count(total_sale) as net_sales
from retail_sales
group by category;
```


	category character varying (15) 🔒	net_sales bigint 🔒
1	Electronics	678
2	Clothing	698
3	Beauty	611





Q.4 Write a SQL Query to find the average age of customers who purchased items from the 'Beauty' category.

```
select round(avg(age),2) as avg_age  
from retail_sales  
where category = 'Beauty';
```

	avg_age numeric 
1	40.42





Q.5 Write a SQL Query to find all transactions where the total\_sale is greater than 1000.

```
select * from retail_sales  
where total_sale > 1000;
```







Q.6 Write a SQL Query to find the total number of transactions (transactions\_id) made by each gender in each category.

```
select
category,
gender,
count(transactions_id) as total_transaction
from retail_sales
group by gender,category
order by category;
```

	category character varying (15) 🔒	gender character varying (10) 🔒	total_transaction bigint 🔒
1	Beauty	Female	330
2	Beauty	Male	281
3	Clothing	Female	347
4	Clothing	Male	351
5	Electronics	Male	343
6	Electronics	Female	335





Q.7 Write a SQL Query to calculate the average sale for each month. Find out the best selling month in each year.

```
select year, month, avg_sales
from
(select
    Extract(year from sale_date) as year,
    Extract(month from sale_date) as month,
    avg(total_sale) as avg_sales,
    rank() over (partition by Extract(year from sale_date) order by avg(total_sale) desc) as rank
from retail_sales
group by 1,2) as t1
where rank = 1;
```

	year numeric	month numeric	avg_sales double precision
1	2022	7	541.3414634146342
2	2023	2	535.531914893617







Q.8 Write a SQL Query to find the top 5 customers based on the highest total sales.

```
select
    customer_id,
    sum(total_sale) as total_sales
from
    retail_sales
group by 1
order by 2 desc
limit 5;
```

	customer_id integer	total_sales double precision
1	3	38440
2	1	30750
3	5	30405
4	2	25295
5	4	23580





Q.9 Write a SQL Query to find the number of unique customers who purchased items from each category.

```
select
    category,
    count(distinct customer_id) as unique_customer
from
    retail_sales
group by category;
```

	category character varying (15) 🔒	unique_customer bigint 🔒
1	Beauty	141
2	Clothing	149
3	Electronics	144





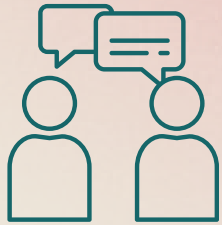
Q.10 Write a SQL Query to create each shift and number of orders  
(Example Morning < 12, Afternoon between 12 & 17, Evening > 17)

```
with hourly_sales
as
(
select *,
    case
        when Extract(hour from sale_time) < 12 then 'Morning'
        when Extract(hour from sale_time) between 12 and 17 then 'Afternoon'
        else 'Evening'
    end as shift
from retail_sales
)
select
shift,
count(*) as total_orders
from hourly_sales
group by shift;
```

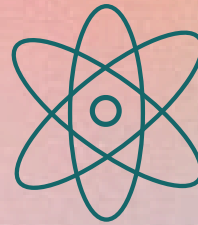
	shift text	total_orders bigint
1	Afternoon	377
2	Evening	1062
3	Morning	548



# What we offer



Add a product



Or feature



Or service



# Customized to your needs



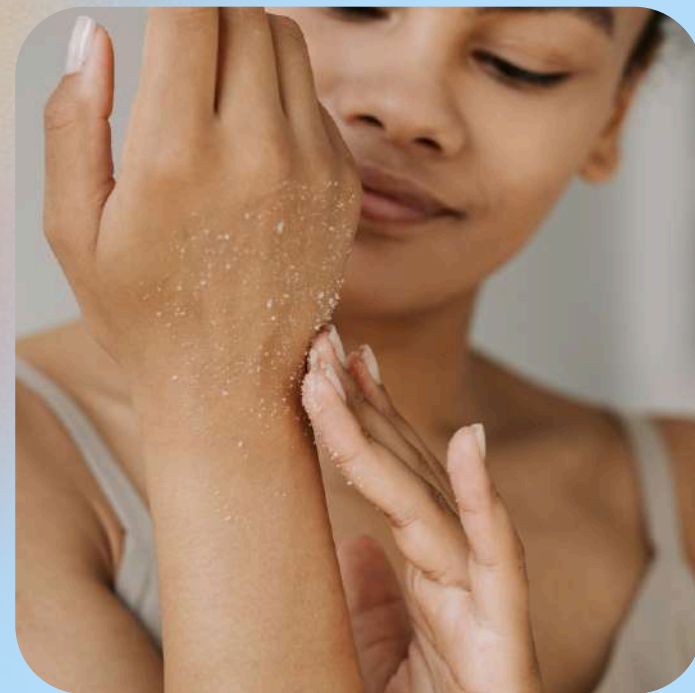
## Add a product

Give a detailed description of the offer.



## Or feature

Give a detailed description of the offer.



## Or service

Give a detailed description of the offer.





You deserve the  
complete package.

Our mission is to bring  
plans A to Z so you can  
live the way you've  
always imagined: lightly  
and confidently.

# Signature Services



Add a benefit

**Add a service**

50\$



Add a benefit

**Add a service**

40\$



Add a benefit

**Add a service**

50\$

# Made for You



Add a benefit

**Add a product**

20\$



Add a benefit

**Add a product**

20\$



Add a benefit

**Add a product**

15\$



# Only the best service and products for our customers

Boost your product and service's credibility by adding testimonials from your clients.

Isabelle Casarez, Satisfied customer

Boost your product and service's credibility by adding testimonials from your clients. People love recommendations so feedback from others who've tried it is invaluable.

Saira Kohli, Entrepreneur

People love recommendations so feedback from others who've tried it is invaluable.

Matt Zhangyee, Patient



# FAQs

## Add a frequently asked question

Having an FAQ section is a great way to present information about your product or service. Using the question-and-answer format makes it more relatable to your users.

## This can be about the products

Having an FAQ section is a great way to present information about your product or service. Using the question-and-answer format makes it more relatable to your users.

## Or about payment options

Having an FAQ section is a great way to present information about your product or service. Using the question-and-answer format makes it more relatable to your users.





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